

PUBLICATION NUMBER : 10007719  
PUBLICATION DATE : 13-01-98

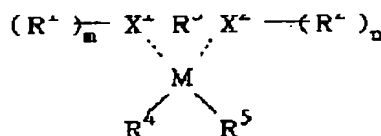
APPLICATION DATE : 28-06-96  
APPLICATION NUMBER : 08170182

APPLICANT : MITSUI PETROCHEM IND LTD;

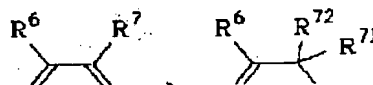
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INT.CL. : C08F 4/70 C08F210/00 C08L 23/00  
C09D 11/02 C09J123/00 //(C08F210/00  
, C08F220:18 , C08F216:36 ,  
C08F218:08 , C08F220:06 )

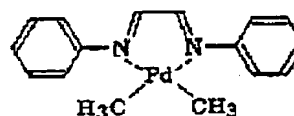
TITLE : MODIFIER COMPRISING  
OLEFIN-POLAR MONOMER  
COPOLYMER



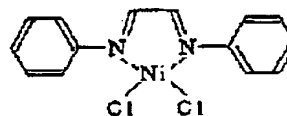
I



II



III



IV

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a modifier comprising an olefin/polar monomer (e.g. acrylic acid monomer) copolymer produce by using new catalyst containing a specified transition metal compound and suited for many uses.

SOLUTION: This modifier comprises an olefin/polar monomer copolymer obtained by using a catalyst containing a transition metal compound represented by formula I (wherein M is a group 8-10 transition metal in the periodic table; X<sup>1</sup> and X<sup>2</sup> are each N or P; R<sup>1</sup> and R<sup>2</sup> are each H or a hydrocarbon group, m and n are each 1 or 2; R<sup>3</sup> is a group represented by formula II; R<sup>6</sup> to R<sup>72</sup> in formula II are each H or a hydrocarbon group; R<sup>4</sup> and R<sup>5</sup> are each H, a halogen, hydrocarbon group, -OR<sup>8</sup> or the like; and R<sup>8</sup> is an alkyl, organosilyl or the like and being excellent in transparency, heat resistance, etc. Examples of the transition metal compounds include those represented by formula III and IV. The polar monomer as a comonomer is methyl (methyl)acrylate, vinyl ketone, vinyl acetate or (meth)acrylic acid. The olefin used is desirably ethylene.

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